BRUHAT BANGALORE MAHANAGARA PALIKE

Detailed Estimate for :-

Providing children play and Open Gym equipement in yelahanka new town park at B sector in Ward No 04.

Estimated cost Rs.50.00 Lakhs

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
1	Earth work in surface excavation in hard soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.50m. excavated surface levelled and neatly dressed , disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.(S.R.of PWD 2016-17, P.No.5, I.No.2.2)								
	Vishveshwaraiah Park								
	open gym platform	1	15.60	7.25	0.30	33.93			
	Platform approach	1	1.65	1.10	0.30	0.54			
	Dr. Raj Kumar Park								
	open gym platform	1	122.65		0.30	36.80			
					Total	**71.27**	233.20	Cum	16620.05
	Basic Rate	220.00							
	Area Weightage @ 6%	13.20							
	Total	233.20							
2	Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (KSB 2.1) (b) 2.3.5, P-5, 1-2.4)								
	Kerb stone for Platform	2	15.60	0.30	0.20	1.87			
		2	7.25	0.30	0.20	0.87			
	Approach	2	1.10	0.30	0.20	0.13			
	Kerb stone for Platform	1	39.25	0.30	0.20	2.36			
	Horse rider	4	0.60	0.60	0.60	0.86			
	Air Walker	2	0.60	0.60	0.60	0.43			
	Shoulder press	2	0.60	0.60	0.60	0.43			
	Chest press	2	0.60	0.60	0.60	0.43			
	Rower	2	0.60	0.60	0.60	0.43			
	Sky walker	2	0.60	0.60	0.60	0.43			
	Leg press	2	0.60	0.60	0.60	0.43			
	Cross Trainer	1	0.60	0.60	0.60	0.22			
	Pendulum	2	0.60	0.60	0.60	0.43			
	Tai chi spinner	2	0.60	0.60	0.60	0.43			
	Standing twister	2	0.60	0.60	0.60	0.43			
	Cycle	1	0.60	0.60	0.60	0.22			
	For Instruction Manual	4	0.50	0.50	0.50	0.50			
	For Benches	10	2.00	2.50	0.30	15.00			

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
						25.91	200.34	Cum	5,191.00
	Basic rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	200.34							
3	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.								
	Vishveshwaraiah Park								
	open gym platform	1	15.60	7.25	0.20	22.62			
	Platform approach	1	1.65	1.10	0.20	0.36			
	Dr. Raj Kumar Park								
	open gym platform	1	122.65		0.20	24.53			
					Total	**47.51**	80.56	Cum	3,828.00
	Basic Rate	76.00							
	Area weightage @ 6%	4.56							
	Total	80.56							
4	Providing and fixing precast solid concrete kerb stones made out of CC. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete P. No. 25 I. No.5.29.2								
	Kerb stone	2	15.60			31.20			
		2	7.25			14.50			
		2	1.10			2.20			
	Missing Kerb	1	45.00			45.00			
	Kerb Stone	1	39.25			39.25			
	Missing Kerb	1	50.00			50.00			
						182.15			
	1kerb=0.45 mt			404.78		**405.00**	385.84	Nos	156265.20
	Basic Rate	364.00							
	Area weightage @ 6%	21.84							
	Total	385.84							
5	Providing and laying in position plain cement concrete of Mix CC 1:4:8 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation including cost of all materials, labour HOM of machinery curing complete as per specification, specification No. KBS 4, 1, 4.2 (PageNo.12, Item No.4.3)								
	Vishveshwaraiah Park								
	open gym platform	1	15.60	7.25	0.15	16.97			
	Platform approach	1	1.65	1.10	0.15	0.27			
	Dr. Raj Kumar Park								

Sl. No	Description of work	No	Dimensions			qty	Rate	Unit	Amount
			L	B	D				
	open gym platform	1	122.65		0.15	18.40			
	Horse rider	4	0.60	0.60	0.15	0.22			
	Air Walker	2	0.60	0.60	0.15	0.11			
	Shoulder press	2	0.60	0.60	0.15	0.11			
	Chest press	2	0.60	0.60	0.15	0.11			
	Rower	2	0.60	0.60	0.15	0.11			
	Sky walker	2	0.60	0.60	0.15	0.11			
	Leg press	2	0.60	0.60	0.15	0.11			
	Cross Trainer	1	0.60	0.60	0.15	0.05			
	Pendulum	2	0.60	0.60	0.15	0.11			
	Tai chi spinner	2	0.60	0.60	0.15	0.11			
	Standing twister	2	0.60	0.60	0.15	0.11			
	Cycle	1	0.60	0.60	0.15	0.05			
	For Instruction Manual	2	0.50	0.50	0.15	0.08			
	For Benches	10	2.00	2.50	0.15	7.50			
						43.13			
						41.76			
					Total	**41.76**	5159.02	Cum	215460.02
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	5159.02							
6	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.5 of PWD SR 2015-16)								
	Vishveshwaraiah Park								
	open gym platform	1	15.60	7.25	0.10	11.31			
	Platform approach	1	1.65	1.10	0.10	0.18			
	Dr. Raj Kumar Park								
	open gym platform	1	122.65		0.10	12.27			
	Horse rider	4	0.60	0.60	0.45	0.65			
	Air Walker	2	0.60	0.60	0.45	0.32			
	Shoulder press	2	0.60	0.60	0.45	0.32			
	Chest press	2	0.60	0.60	0.45	0.32			
	Rower	2	0.60	0.60	0.45	0.32			
	Sky walker	2	0.60	0.60	0.45	0.32			
	Leg press	2	0.60	0.60	0.45	0.32			
	Cross Trainer	1	0.60	0.60	0.45	0.16			
	Pendulum	2	0.60	0.60	0.45	0.32			
	Tai chi spinner	2	0.60	0.60	0.45	0.32			
	Standing twister	2	0.60	0.60	0.45	0.32			
	Cycle	1	0.60	0.60	0.45	0.16			
	For Instruction Manual	2	0.50	0.50	0.30	0.15			
	For Benches	10	2.00	2.50	0.10	5.00			
					Total	**32.79**	5874.52	Cum	192651.95
	Basic Rate	5542.00							
	Area Weightage @ 6%	332.52							

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
	Total	5874.52							
7	Providing and fixing cement base precast, pre-polished cement concrete designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mix finished with flush pointing using white cement, including cost of materials, including cutting, gridding the edge to half/full round wherever required, labour curing complete as per specification. P.109, I. No.14.62								
	Vishveshwaraiah Park								
	open gym platform	1	15.60	7.25		113.10			
	Platform approach	1	1.65	1.10		1.82			
	Dr. Raj Kumar Park								
	open gym platform	1	122.65			122.65			
	For Benches	10	2.00	2.50		50.00			
	Damaged benches	6	2.00	2.50		30.00			
					Total	**317.57**	1116.18	sqmt	354,460.00
	Basic Rate	1053.00							
	Area weightage @ 6%	63.18							
	Total	1116.18							
8	Removing and resetting of Kerb stone I:34.18								
	Park area	2	400.00			800.00			
	Park area	2	400.00			800.00			
	Deduct Missing Kerb	1	45.00			-45.00			
	Deduct Missing Kerb	1	50.00			-50.00			
					Total	**1505.00**	65.72	Mtr	98,909.00
	Basic Rate	62.00							
	Area weightage @ 6%	3.72							
	Total	65.72							
9	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.								
	Kerb stone	2	15.60		0.45	14.04			
		2	7.25		0.45	6.53			
	Approach	2	1.10		0.45	0.99			
	Missing Kerb	1	45.00		0.45	20.25			
	Kerb Stone	1	39.25		0.45	17.66			
		1	50.00		0.45	22.50			
					Total	**81.97**	27.56	sqmt	2,259.00
	Basic Rate	26.00							
	Area weightage @ 6%	1.56							
	Total	27.56							

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
10	KSRRB M2700- Painting on Concrete Surface KSRRB M2700-12. Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint at of 1 litre for 2 sqm complete as per specifications MORTH Specification No. 800								
	Kerb stone	2	15.60		0.45	14.04			
		2	7.25		0.45	6.53			
		2	1.10		0.45	0.99			
	Park area	2	400.00		0.45	360.00			
	Kerb Stone	1	39.25		0.45	17.66			
	Park area	2	400.00		0.45	360.00			
					Total	**759.22**	66.78	sqmt	50,701.00
	Basic Rate	63.00							
	Area weightage @ 6%	3.78							
	Total	66.78							
11	SUPPLYING AND FIXING PENDULUM DOUBLE OF SAFE AREA: 2.5 mtr x 1 mtr main frame: 100 NB GI G-class pipe, LEG FRAME: 40 NB GI B-class pipe handle frame 25 NB GI B-class pipe, seat: LLDP Plastic pipe cap: nylon 66 injection moulded, bearing cap: nylon 66 injection moulded, bearing housing and pin: seamless pipe and round bar, NUT BOLTS CAP: nylon 66 injection moulded, bearing caps: permament sealed of reputed make (FAB/SKF), nut bolts: high tensile steel galavanise nut bolts, power coat – done by pure poly urethane powder with 70-80 microne thickness as per enginner incharge of the work								
						2.00	136440	each	272,880.00
12	Supplying and fixing of LEG PRESS DOUBLE of safe area: 2.8 mtr x 1.5 mtr, center Pipe: 100 NB, GI- B-Class pipe, seat frame: 32 NB GI B-Class pipe. Back rest: LLDP Plastic seat rest: LLDP Plastic, Foot Rest: LLDP Plastic, Pipe Cap: nylon 66 injection moulded, bearing, housing and pin: seamless pipe and round bar, bearings: permanent sealed of reputed make(FAG/SKF), STOPPER-PU Rod, nut, bolds cap-nylon 66 injection moulded NUT BOLTS-HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT-DONE BY PURE POLY URETINE POWDER WITH 70-80 MICRONE THICKNESS AS PER ENGINEER INCHARGE OF THE WORK.								
						2.00	141420	each	282,840.00

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
13	SUPPLYING AND FIXING OF FUN WALKER OFF SAFE AREA-3 mtr x 2 mtr, main frame: 100NB GI B-class pipe, LEG FRAME: 32 NB GI B-cLASS pipe, HANDLE FRAME: 25NB GI B-CLASS pipe, FOOT REST: LLDB PLASTIC, PIPE:Nylon 66 injection moulded, BEARING CAP: nylon 66 injection moulded, BEARING HOUSING AND PIN: seamless pipe and round bar, NUT BOLT CAP: nylon 66 injection moulded, BEARING: Permanent sealed of reputed make(FAB/SKF), NUT BPLTS-HIGH TENSILE STEEL, GALVANISE NUT BOLTS, POWDER COAT: Done by pure poly urethane powder with 70-80 microne tthickness as per engineer incharge of the work								-
						2.00	85300	each	170,600.00
14	SUPPLYING AND FIXING SHOULDER PRESS DOUBLE OF SAFE AREA: 4 mtr x 2.5 mtr of centre pipe: 100 NB GI B-class pipe, SEAT FRAME: 32 NB GI B-class pipe handle frame 15 NB GI B-class pipe, handle cover TPEE injection moulded seat rest: LLDP Plastic pipe cap: nylon 66 injection moulded, bearing cap: nylon 66 injection moulded, bearing housing and pin: seamless pipe and round bar, BEARINGS: permament sealed of reputed make (FAB/SKF), nut bolts: high tensile steel galavanise nut bolts, nut bolts cab nylon 66 injection moulded power coat – done by pure poly urethane powder with 70-80 microne thickness as per engineer incharge of the work								-
						2.00	140595	each	281,190.00
15	SUPPLYING AND FIXING OF STANDING TWISTER THREE WAY OF SAFE AREA: 2.5 mtr dia main frame 100 NB GI B-class pipe, ARM FRAME: 32 NB GI B-class pipe handle frame 20 NB GI B-class pipe twister disk LLDP Plastic pipe cap nylon 66 injection moulded, bearing cap: nylon 66 injection moulded, bearing housing and pin: seamless pipe and round bar,NUT BOLTS CAP: nylon 66 injection moulded bearing permament sealed of reputed make (FAG/SKF), nut bolts: high tensile steel galvanized nut bolts, done by pure poly urethane powder with 70-80 microne thickness as per engineer incharge of the work								-
						2.00	137600	each	275,200.00
16	SUPPLYING AND FIXING OF TAI CHI SPINNER OF SAFE AREA: 2.0 mtr, DIA, main frame 100 100 NB GI B-class pipe, Handle Frame : 32 NB GI B-class pipe spinning LLDP Plastic pipe cap nylon 66 injection moulded, bearing cap: nylon 66 injection moulded, bearing housing and pin: seamless pipe and round bar, NUT BOLT CAPS: NYLON 66 injection moulde bearing permament sealed of reputed make (FAB/SKF), nut bolts: high tensile steel galvanized nut bolts, done by pure poly urethane powder with 70-80 microne thickness as per engineer incharge of the work								-
						2.00	115135	each	230,270.00

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
17	SUPPLYING AND FIXING OF CHEST PRESS DOUBLE OF SAFE AREA: 4 mtr x 2.5 mtr of centre pipe: 100 NB GI B-class pipe, CEAT FRAME: 32 NB GI B-class pipe handle frame 32 NB & 15NB GI B-class pipe handle cover TPEE injection moule sear rest LLDP Plastic pipe cap nylon 66 injection moulded, bearing housing & seamless pipe and round bar, BEARINGS: permament sealed of reputed make (FAG/SKF), nut bolts: high tensile steel galavanised nut bolts, done by pure poly urethane powder with 70-80 microne thickness as per engineer incharge of the work					2.00	147340	each	294,680.00
18	SUPPLYING AND FIXING OF FUN ROVER OF SAFE AREA: 2.5 mtr x 1.5 mtr of main frame: 80 NB GI B-class pipe, CEAT FRAME: 80 NB GI B-class pipe handle frame 32 NB GI B-class pipe Seat LLDP Plastic pipe cap nylon 66 injection moulded, bearing cap: nylon 66 injection moulded, bearing housing and pin: seamless pipe and round bar, NUT BOLTS CAP: nylon 66 injection moulded, BEARINGS: permament sealed of reputed make (FAG/SKF), nut bolts: high tensile steel galavanised nut bolts, done by pure poly urethane powder with 70-80 microne thickness as per engineer incharge of the work					2.00	107080	each	214,160.00
19	SUPPLYING AND FIXING OF SKYWALKER OF SAFE AREA: 2.8 mtr x 1.5 mtr centre pipe: 100 NB GI B-class, SEAT FRAME: 32 NB GI B-class pipe, BACK REST: LLDP Plastic, SEAT REST: LLDP Plastic, FOOT REST: LLDP Plastic, PIPE CAP: Nylon 66 injection moulded, BEARING CAP: Nylon 66 injection moulded bearing housing an pin: seamless pipe an Round Bar, Bearing: Permanent sealed of reputed make (FAG/SKF) stopper: PU Rod, Nut Bolts Cap: Nylon 66 injectin moulded, Nut Bolts: High Tensile Steel, Galbanise Nut Bolts, Powder coat: Done by pure polyurethane power with 70-80 micron thickness as per engineer incharge of the work					2.00	147340	each	294,680.00
20	SUPPLYING AND FIXING FUN RIDER OF SAFE AREA: 2.5 mtr x 1.5 mtr main frame: 80 NB GI B-class pipe, SEATFRAME: 80 NB GI B-class pipe handle frame 32 NB GI B-class pipe seat LLDP Plastic pipe nylon 66 : nylon 66 injection moulded, bearing cap: nylon 66 injection moulded bearing housing and pin seamless pipe and round bar, NUT BOLTS CAP: nylon 66 injection moulded bearings permament sealed of reputed make (FAG/SKF), nut bolts: high tensile steel galavanised nut bolts, powder coat done by pure poly urethane powder with 70-80 micron thickness as per engineer incharge of the work					4.00	109660	each	438,640.00

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
21	SUPPLYING AND FIXING OF STEP TRAINER OF SAFE AREA: 3.0 mtr x 1.5 mtr main frame: 100 NB GI B-class pipe, BOTTOM FRAME: 40 NB GI B-class pipe handle frame 32 NB & 15 NB GI B-class pipe handle cover TPEE injection moulded foot rest, LLDP plastic pipe cap nylon 66 : nylon 66 injection moulded, bearing cap: mnylon 66 injection moulde bearing housing and pin seamless pipe and round bar, NUT BOLTS CAP: nylon 66 injection moulded bearings permament sealed of reputed make (FAB/SKF), nut bolts: high tensile steel galavanised nut bolts, powder coat done by pure poly urethane powder with 70-80 microne thickness as per engineer incharge of the work								
						1.00	119400	each	119,400.00
22	SUPPLYING AND FIXING CYCLE SINGLE OF SAFE AREA: 2.5 mtr x 1 mtr of centre pipe: 100 NB GI B-class pipe, ARM FRAME: 40 NB GI B-class pipe handle frame 20 NB GI B-class pipe Seat LLDP Plastic pipe nylon 66 injection moulded, bearing cap: nylon 66 injection moulded, bearing housing and pin: seamless pipe and round bar, BEARINGS: permament sealed of reputed make (FAB/SKF), nut bolts: high tensile steel galavanised nut bolts, done by pure poly urethane powder with 70-80 microne thickness as per engineer incharge of the work								
						1.00	78170	each	78,170.00
23	Providing and fixing granite benches as per design specification and fixing as per the direction of Engineer in charge of work								
						10.00	10550	Nos	105,500.00
24	Supply and fixing safety instruction board with BBMP Logo and company of manufacturing Logo finished product should have the following specification 1 inch *16 gauge sq metal frame, 2 inch by 16 gauge round pipe powder coated ,Fittings and clamps suited flex 2 print, sq pipe frame 1.2m x0.3m, round 3.48m by 2 inches * 16 gauge – 2 nos, flex print - 1 nos with safety instructions.								
						2.00	15332	Nos	30,664.00
25	KSRB 14.6-1: Providing and resetting of available heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm jOints, final compaction of paver surface joints into its final level, includingthick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between labour and HOM of machineries complete as per specifications (P.No 101 of I.No.14.6 in PW,P&IWTD SR 2015-16)								
	Park Area	2	134.00	2.50		670.00			
					Total	**670.00**	457.92	Sqm	306,806.00
	Basic Rate	432.00							
	Area weightage @ 6%	25.92							
	Total	457.92							

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
34	KSRB 14.6-1: Providing and fixing of available heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm jOints, final compaction of paver surface joints into its final level, includingthick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between labour and HOM of machineries complete as per specifications (P.No 101 of I.No.14.6 in PW,P&IWTD SR 2015-16)								
	Missing and Damaged portion	1	30.00	3.00		90.00			
					Total	**90.00**	966.72	Sqm	87,005.00
	Basic Rate	912.00							
	Area weightage @ 6%	54.72							
	Total	966.72							
35	Lead for earthwork and disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading for earthwork (upto 10 kms) complete with all lead & lift & as per the direction of the Engineer in charges. (S.R.of PW,P & IWTD, SR 2016-								
	For 10k.m	**10x1.3x2=**		**26.00**					
	Loading & unloading			**68.00**					
				94.00					
	A.W 6% =			**5.64**					
	Total =			**99.64**		49.67			
	Qty item No.1 , 2					**41.47**			
					Total	41.47	99.64	cum	4,131.87
						4583979.28			4,565,119.75
						412558.14		KRIDL Charges 9%	410,860.78
								Third party and QC Charges0.5%	22,825.60
						3462.58		Miscellaneous	1,193.88
								GRAND TOTAL Rs.	**5,000,000.00**

Certificate

1. The work spot has been inspected and the work is found necessary
2. This estimate is prepared as per C.S.R. of 2016-17 & approved data rate.
3. This provisions were made in this estimate are necessary and adequate
4. This work comes under B.B.M.P limits

Asst. Engineer
BBMP

18/3/17
Asst. Executive Engineer Project
Yelahanka Zone, BBMP

Executive Engineer project
Yelahanka Zone
BBMP
18/3/17.

Administrative Approval
Accorded For Rs. 50.00 lakhs.
Head of A/C P-2415
CER NO : 09/16-17 Dt: 20-03-2017

E.E. (Project)
AE
20/3

Technical Sanction
Accorded For 50.00 lakh Rs
Head of A/C P-2415
CER NO : 184 Dt: 20/03/17

TA CE (YNK).